No.



8100062

THE DAILHED SHATHES OF ANTERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

C. Harvey Campbell, Ir.

Withereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to expecting it, or exporting it, or offering it for sale, or reproducing it, porting it, or exporting it, or using it in producing a hybrid or different therefrom, to the extent provided by the Plant Variety Protection Act. Inited States seed of this variety (1) shall be sold by variety name only as f certified seed and (2) shall conform to the number of generations the owner of the rights. (84 stat. 1542, as amended, 7 u.s.c. 2321 et seq.)

COTTON

'Germain's Acala GC-555'

In Estimony Wancrot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 24th day of March in the year of our Lord one thousand nine hundred and eighty-three.

John R Block Secretary of Agriculture

Allest.

Kennett & Evan

Plant Variety Protection Office Grain Division

Agricultural Marketing Service

MAXAMA NE



BREEDING HISTORY OF GC-555-2 891 4/10/82

GC-555-2 is a reselected line from the U.S. Cotton Research Station, Shafter, California, line T8687.

T8687 is a single line of Acala cotton developed by pedigree selection from germplasm generated from the following cross (C6TE X NM3080).

The bulk populations from this cross were selected for verticillium wilt tolerance by Dr. W. C. Schnathorst, University of California, in the F_2 through F_5 generations. Breeding records at Shafter do not indicate methodology for these selections.

In 1973 Dr. H. B. Cooper selected a single plant from this population designated as Schnathorst-5.

In 1974 a single plant was selected as T7928-1,

ITEM 13a:

In 1975 a single plant was selected as T8038-3.

In 1976 this single plant was grown as a bulk increase and designated T8687.

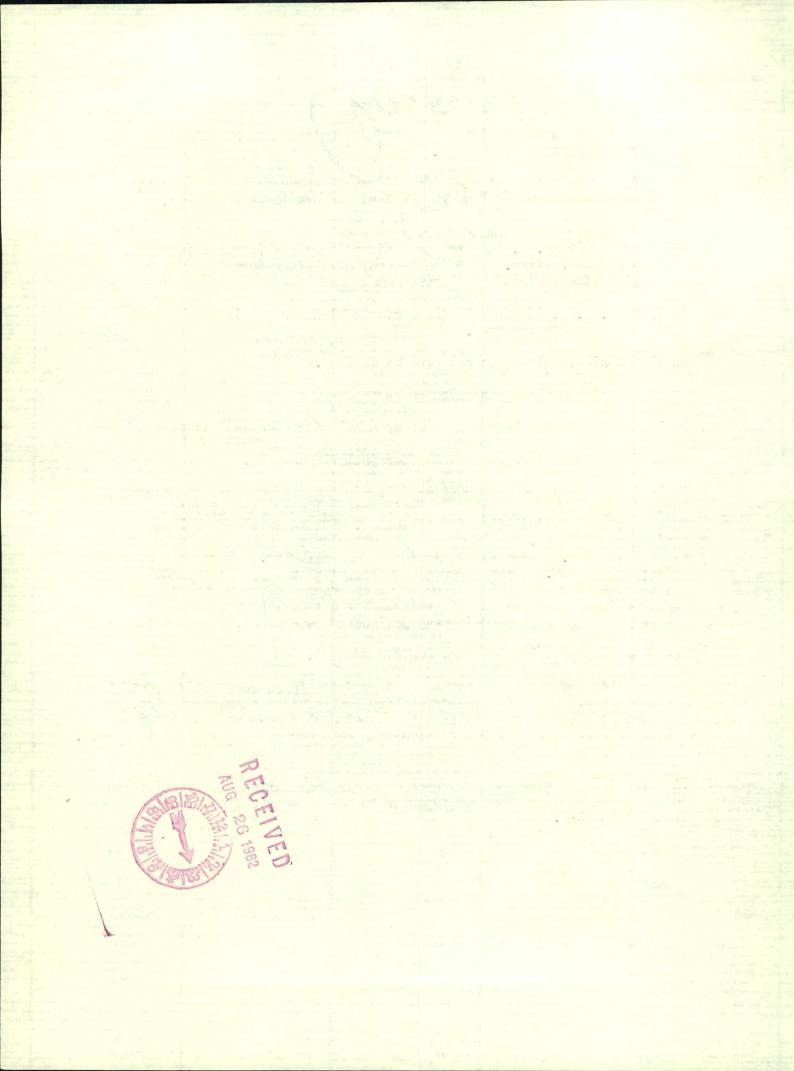
Seed of T8687 was increased at Shafter in 1977 and 1978.

In 1979 T8687 was grown by HC & A, Inc., in ten 50-foot rows at River West, Inc., GP Ranch, Lost Hills, California, and selected for uniformity, heat tolerance and verticillium wilt tolerance. The material was bulked and designated GC-555-1. In 1980 GC-555-1 was planted by HC & A, Inc., at River West, Inc., Tejon Ranch, Arvin; River West, Inc., GP Ranch, Lost Hills; and at H.P. Anderson Ranch, Tulare, California. The GP Ranch planting was selected for uniformity. The H. P. Anderson plots were selected for verticillium tolerance and uniformity. These two plantings were bulked and blended 50% from each planting and designated 'GC-555-2'.

GC-555-2 = The F₁₂ of the cross (C6TE X NM3080).

The stability of GC-555-2 has been observed for four reproductive generations and the variety has maintained stability in its plant characteristics. The variant level is too low to allow meaningful percentage counts of variants, therefore no variants have been observed and the variety is stable.

The breeding objective was to breed an Acala-type cotton with verticillium tolerance and heat resistance superior to SJ-5, and yield equal to or better than SJ-5.



81 2/23/83 GERMAINS 8918 1/21/83

Cotton Application: Acala Gotton GC-555-2 No. 8100062

GC-555-2 is a variety reselected from USDA Shafter Advance Strain T 8687.

The reselection procedure was as follows:

1979: T 8687 was planted at Lost Hills in 10 rows, 50 ft long. All plants showing verticillium wilt or off-type were eliminated. Two hundred plants were selected for heavy fruiting during this high temperature growing season. Seed from these 200 plants was blended 50-50 with seed from verticillium-free plants in the bulk population. Verticillium wilt was moderate to heavy in the plot. This bulk seed was designated 'GC 555-1'.

1980: GC-555-1 was planted in 2400 ft of replicated rows at Tulare, and 4800 row feet at the Lost Hills nursery. The Tulare nursery was rogued for off-type plants and all plants showing foliar verticillium wilt were eliminated. Susceptible types showed a high level of verticillium wilt in the Tulare nursery. The Lost Hills nursery was rogued for off-type plants. The seed from Tulare and Lost Hills was bulked 50-50 and designated as 'GC-555-2'.

C. Harvey Campbell, jr.



(Cotton Applic. #8100062)

2/23/83

GERMAIN'S Acala

ITEM 13B: NOVELTY STATEMENT

GC-555-2

Acala GC-555-2 most closely resembles SJ-5, including plant height and maturity.

The two major differences between GC-555-2 and SJ-5 are given below:

- 1) Verticillium tolerance of GC-555-2 is 100 to 400% greater than that of SJ-5. Verticillium tolerance data for 1980, 1981 and 1982 from 4 locations is enclosed.
- 2: GC-555-2 boll size is 10-15% greater than SJ-5. This is the destinctive botanical difference between GC-555-2 and SJ-5.

To verify our observations in 1980 and 1981 we collected 100 boll samples of GC-555-2 and SJ-5 from two locations. The data from both years showed an average dry boll weight of 12.12 grams/boll for GC-555-2 vs. 10.58 grams/boll for SJ-5.



98/ 2/23/83 GERMAIN'S Acala NOVELTY STATEMENT, GC-555-2 (continued) 9/10/82 ITEM 13b: Verticillium Wilt Tolerance Data: Vert.Sympton 1980 - Tulare per 100 plants GC-555-1 Rep #I 78 II III IV 6 Ave. 6.3 10 I SJ-5 II 12 III 18 IV 11 12.8 1981 - Tulare Rep #I GC-555-2 3 0 5 III IV Ave. 8 I SJ-5 II 11 III 5 IV 11 Ave. Lost Hills Rep #I GC-555-2 250 II III IV Ave. I SJ-5 4 10 II III 9 8 IV Aye. 1982 - Merced Rep #I GC-555-2 5 13 II III 35

32 21

18

30

56

65

Ave.

Ave.

IV

I

II

III

IV

SJ-5



INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties:

 (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

rec'd FEB 27 1981 11:00 am Pt

UNITED STATES DEPARTMEN AGRICULTURAL MARK LIVESTOCK, POULTRY, GRA	ETING SERVICE			FORM APPROVED OMB NO. 40-R3822
APPLICATION FOR PLANT VARIE INSTRUCTIONS: See Reverse,		N CERTIFICATE	No certificate for pl be issued unless a co has been received (5	ant variety protection may ompleted application form U.S.C. 553).
1a. TEMPORARY DESIGNATION OF VARIETY	16. VARIETY NAME Acala &	1-555		IAL USE ONLY
HCA, Inc-555 & C-555-2	To be determi		PV NUMBER	100062
2. KIND NAME	3. GENUS AND SPE	CIES NAME	FILING DATE 2/27/81	TIME A.M.
Cotton	Gossypium hi	rsutum	FEE RECEIVED	11000 P.M.
4. FAMILY NAME (BOTANICAL)	5. DATE OF DETER	RMINATION	\$ 500.00	2/27/81
Malvacieae	November 1,	1979	\$ 250.00	2/8/83
6. NAME OF APPLICANT(S) C. HARVEY CAMPIBELL, M. HC & A, Inc. 88 H. 928/82	P.O. Box 9	and No. or R.F.D. No., 656 d, CA 93389	City, State, and ZIP	8. TELEPHONE AREA CODE AND NUMBER (805)833-1751
 IF THE NAMED APPLICANT IS NOT A PE ORGANIZATION: (Corporation, partnersh 	ERSON, FORM OF	10. IF INCORPORAT	ED, GIVE STATE AND	11. DATE OF INCOR-
Corporation	7,		nia 3-13-80	3-13-80
12. NAME AND MAILING ADDRESS OF APP ALL PAPERS:	LICANT REPRESENTA	ATIVE(S), IF ANY, TO	SERVE IN THIS APPLI	CATION AND RECEIVE
HC & A, Inc., P.O. Box 9	656, Bakersfie	1d, CA 93389		
13. CHECK BOX BELOW FOR EACH ATTACK	HMENT SUBMITTED:	la father topes	73.40	
X 13A. Exhibit A, Origin and Bree		Variety (See Section	52 of the Plant Variet	ty Protection Act)
13B. Exhibit B, Novelty Statem		LETS MALE		y 1 revection 11cm.
13C. Exhibit C, Objective Descri			Plant Variety Protec	tion Office.)
☐ 13D. Exhibit D, Additional Des	cription of the Varie	ty.		
14a. DOES THE APPLICANT(S) SPECIFY THA SEED? (See Section 83(a). (If "Yes," answ			RIETY NAME ONLY A	S A CLASS OF CERTIFIED
14b. DOES THE APPLICANT(S) SPECIFY THA LIMITED AS TO NUMBER OF GENERAT	T THIS VARIETY BE		B, HOW MANY GENER	RATIONS OF PRODUC-
YES X NO		FOUNDATION	REGISTERED	CERTIFIED
15a. DID THE APPLICANT(S) FILE FOR PROT	ECTION OF THIS VA	RIETY IN OTHER COU	NTRIES? YES	NO (If "Yes," give
name of countries and dates.)				
15b. HAVE RIGHTS BEEN GRANTED THIS V	ARIETY IN OTHER CO	UNTRIES? YES	NO (If "Yes,"	"give name of countries
and unies.)				
16. DOES THE APPLICANT(S) AGREE TO THE JOURNAL?	E PUBLICATION OF I	HIS/HER (THEIR) NAM	IE(S) AND ADDRESS II	N THE OFFICIAL
17. The applicant(s) declare(s) that a viable		d of this variety will	be furnished with the	application and will be
replenished upon request in accordance				
The undersigned applicant(s) is (are) t variety is distinct, uniform, and stable 42 of the Plant Variety Act.				
Applicant(s) is (are) informed that fals	se representation here	ein can jeopardize pro	otection and result in	penalties.
2/23/80		C. Ita	my Car	sollli
(DATE)		The state of the	SIGN TURE OF APPL	ICANT)
(DATE)			(SIGNATURE OF APPL	ICANT)

ASSIGNMENT OF PLANT VARIETY PROTECTION CERTIFICATES NOS. 8100060, 8100061, 8100062, 8200166 AND 8400129

THIS ASSIGNMENT is executed this 15th day of November, 1984 by C. HARVEY CAMPBELL, JR., DAVID L. WEST, H. P. ANDERSON III and KENNETH L. PURYEAR (sometimes hereafter collectively "CWA") and GERMAIN'S, INC., a California corporation (hereafter "Germain's");

WITNESSETH:

WHEREAS, on March 24, 1983, the Secretary of the United States Department of Agriculture, pursuant to the United States Plant Variety Protection Act of December 24, 1970 (84 Stat. 1542; 7 U.S.C., §§ 2321 et seq.; hereafter the "Act"), issued to C. Harvey Campbell, Jr. Plant Variety Protection Certificate Nos. 8100060, 8100061, 8100062 and 8200166 for Germain's Acala GC-363, Germain's Acala GC-445, Germain's Acala GC-555 and Germain's Acala GC-510, respectively; and

WHEREAS, on September 28, 1984, the Secretary of the United States Department of Agriculture pursuant to the Act issued to CWA Plant Variety Protection Certificate No. 8400129 for Germain's Acala GC-362; and

WHEREAS, by letter dated September 27, 1984, C. Harvey Campbell assigned Plant Variety Protection Certificate Nos., 8100060, 8100061, 8100062 and 8200166 to CWA; and

WHEREAS, by Agreement dated October 15, 1984 between CWA and Germain's (hereinafter the "Agreement"), CWA agreed to execute and deliver to Germain's conditional assignments of their plant variety protection rights with respect to Germain's Acala GC-362, Germain's Acala GC-363, Germain's Acala GC-445, Germain's Acala GC-510 and Germain's Acala GC-555 and the plant variety protection certificates issued with respect thereto, Certificate Nos. 8400129, 8100060, 8100061, 8100062 and 8200166, respectively;

NOW, THEREFORE, in consideration of the foregoing recitals and of the mutual covenants hereinafter set forth, IT IS AGREED as follows:

- 1. Assignment. CWA hereby assigns to Germain's all their right, title and interest in and to their plant variety protection rights with respect to Germain's Acala GC-362, Germain's Acala GC-363, Germain's Acala GC-445, Germain's Acala GC-510 and Germain's Acala GC-555 and the plant variety protection certificates issued with respect thereto, Certificate Nos. 8400129, 8100060, 8100061, 8100062 and 8200166, respectively, on condition that, and so long as, Germain's fully performs its obligations under paragraphs 1, 2, 5, 6, 7, 11, 12 and 14 of the Agreement.
- 2. Grant of Security Interest. Germain's hereby grants to CWA a security interest in the plant variety protection rights with respect to Germain's Acala GC-362, Germain's Acala GC-363, Germain's Acala GC-445, Germain's Acala GC-510 and Germain's Acala GC-555 and the plant variety protection certificates issued with respect thereto, Certificate Nos. 8400129, 8100060, 8100061, 8200166 and 8100062, respectively, to secure Germain's performance of its obligations under paragraphs 1, 2, 5, 6, 7, 11, 12 and 14 of the Agreement.
- 3. <u>Incorporation by Reference</u>. The parties incorporate herein by reference the provisions of paragraphs 5 (Plant Variety



Protection), 10 (Term), 11 (Sale or Assignment by Germain's) and 12 (Right of First Refusal), pertaining to plant variety protection certificates, specific reference to which should be made for further particulars.

GERMAIN'S INC.

Roger/ A

"Germain's"

4. Recording. Germain's may record this assignment in accordance with section 101 of the Act (7 U.S.C., § 2531).

IN WITNESS WHEREOF, the parties hereto have executed this assignment on the day and year first hereinabove written.

C. Hany Campbell in

Vand A.

H. P. Anderson III

"CWA"

2



8100062

ASSIGNMENT

For good and valuable consideration, receipt whereof is hereby acknowledged, the undersigned Germain's, Inc., a California corporation, of 4820 East 50th Street, Los Angeles, California 90058, does hereby sell, assign, transfer and set over to Germain's, Inc., a Delaware corporation, of 4820 East 50th Street, Los Angeles, California 90058, the entire right, title and interest in and to the plant varieties and Plant Variety Protection Certificates as set forth in Schedule 1 annexed hereto.

GERMAIN'S, INC., a California corporation

By

Peter A. Fulgoni

President



STATE OF CALIFORNIA) ss.
COUNTY OF LOS ANGELES)

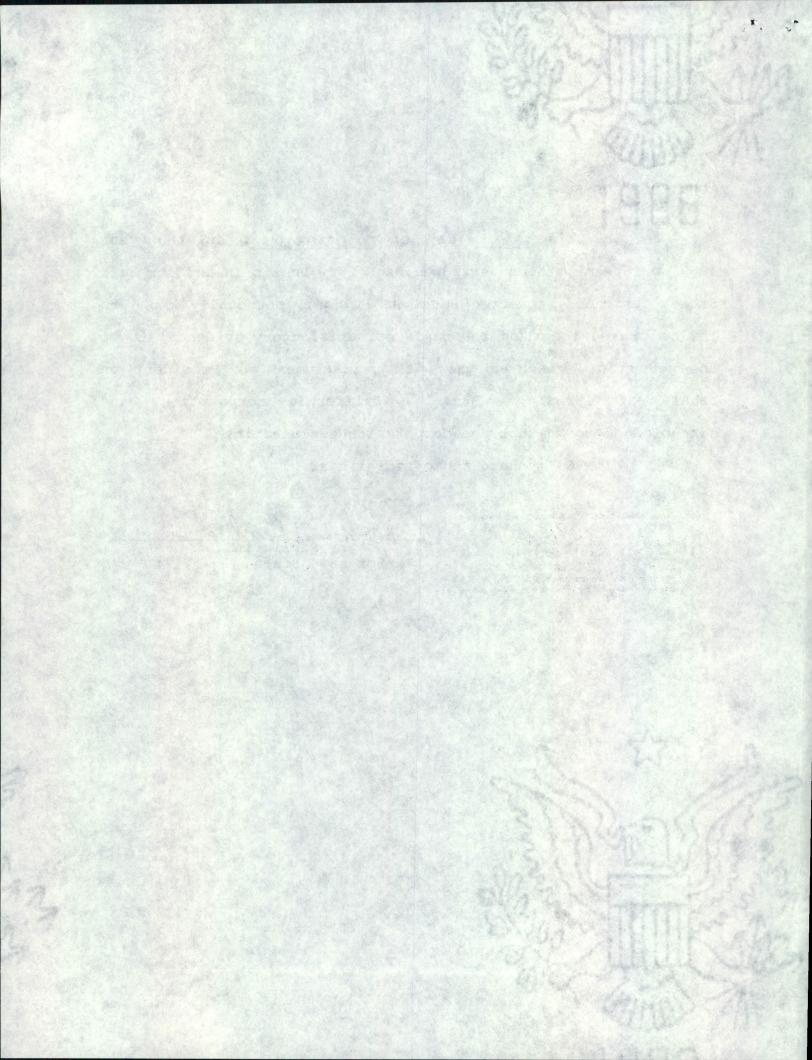
On this Aday of February, in the year 1989, before me, the undersigned, a Notary Public in and for said State, personally appeared Peter A. Fulgoni, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person who executed the within instrument as President on behalf of Germain's Inc., a California corporation, and acknowledged to me that the corporation executed it.

WITNESS my hand and official seal.



Notary Public in and for said State

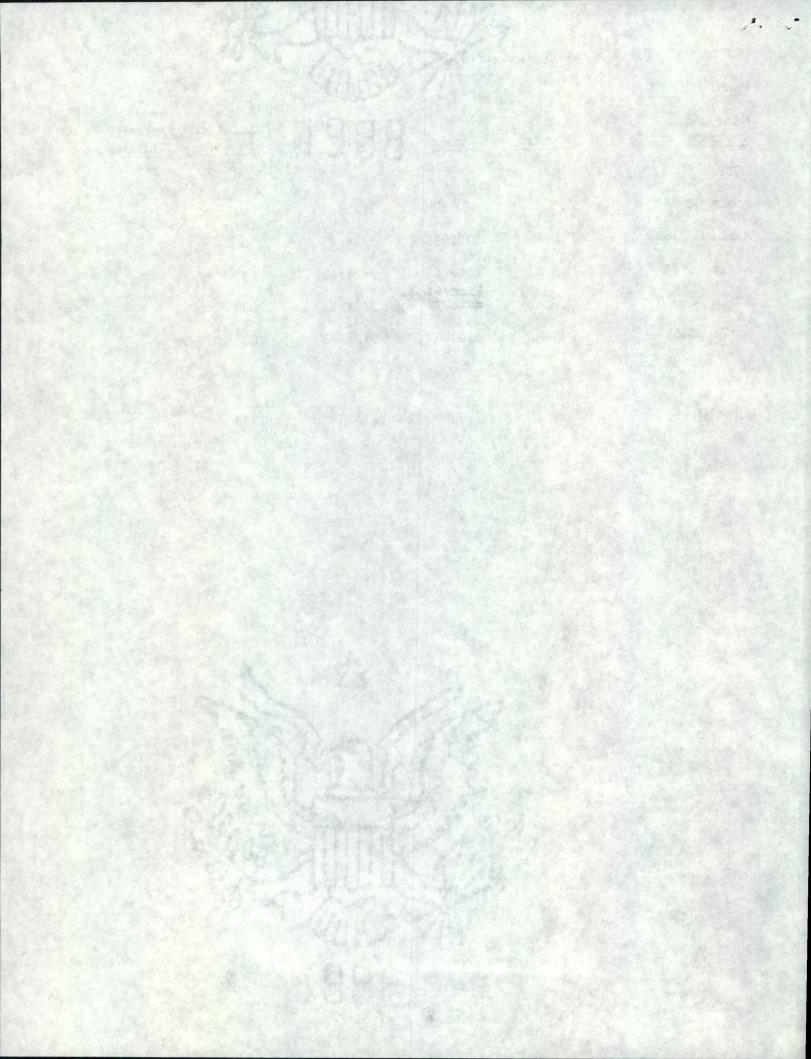
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PLANT PATENTS

Name and Description	Country	Number	Effective Date	Expiration Date (Year)	Renewal Information
COTTON					
Acala GC-362	U.S.A.	8400129	9/28/84	2001	
Acala GC-363	U.S.A.	8100060	3/24/83	2000	
Acala GC-445	U.S.A.	8100061	3/24/83	2000	
Acala GC-510	U.S.A.	8200166aky	3/24/83	2000	
Acala GC-555	U.S.A.	8100062	3/24/83	2000	
WHEAT					
Wheat W-444	U.S.A.	7600079	12/76	1993	



CUYLER BURK

COUNSELLORS AT LAW

PARSIPPANY CORPORATE CENTER
FOUR CENTURY DRIVE
PARSIPPANY, NEW JERSEY 07054-4663

(201) 734-3200

FACSIMILE: (201) 734-3201

New York Office: 350 FIFTH AVENUE, SUITE 3304 New York, New York 10118

DIRECT DIAL:

May 30, 1996

FEDERAL EXPRESS

Plant Variety Protection Office 500 NAL Building 10301 Baltimore Avenue Beltsville, Md. 20705

Attention: Anne Zempolich

Re: Assignment of Plant Variety Protection Certificates From Germain's, Inc. to Germain's Cotton Seeds, Inc.

Dear Ms. Zempolich:

As we discussed this morning, I have enclosed for filing an Assignment of eight (8) plant variety protection certificates from Germain's, Inc. to Germain's Cotton Seeds, Inc. In addition, I also have enclosed a \$200.00 check payable to the United States Treasurer as payment of the applicable filing fees.

As you can see from the acknowledgement attached to the Assignment, Doug Elkins, the CEO of Germain's, Inc., executed the Assignment on behalf of Germain's, Inc. If you need to confirm that Mr. Elkins is the CEO of Germain's Inc. with someone from Germain's, Inc., the phone number for Germain's, Inc. is (209) 233-8823.

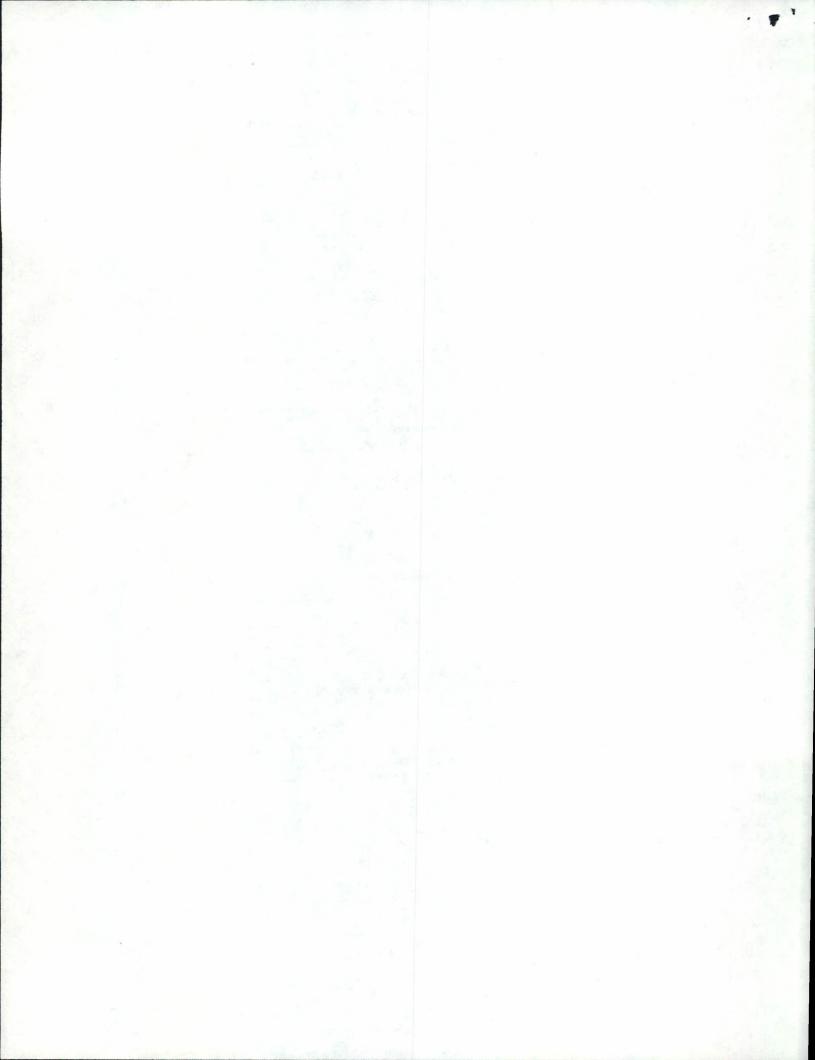
If you have any questions concerning the enclosed Assignment or its filing, please do not hesitate to call me.

J. Scott Mackay

JSM:mgb .cc: George Petrides (via regular mail)

CUYLER BURK ATTORNEY BUSINESS ACCOUNT FOUR CENTURY DRIVE PARSIPPANY, NJ 07054 (201734-3200	EXPLANATION AMOUNT 55-150/212
Pay Two hundred and	10390
5/31/96 United States Treasurer	DESCRIPTION CHECK MOUNT G/50/3 10/50/
HUDSON UNITED BANK PASSAIGANE & PHER LANE FARRIELD, NJ 97004	TWO SIGNATURES REQUIRED IN EXCESS OF \$1,000.
"O10390" 1:02120150:	31:058 258000084.7III

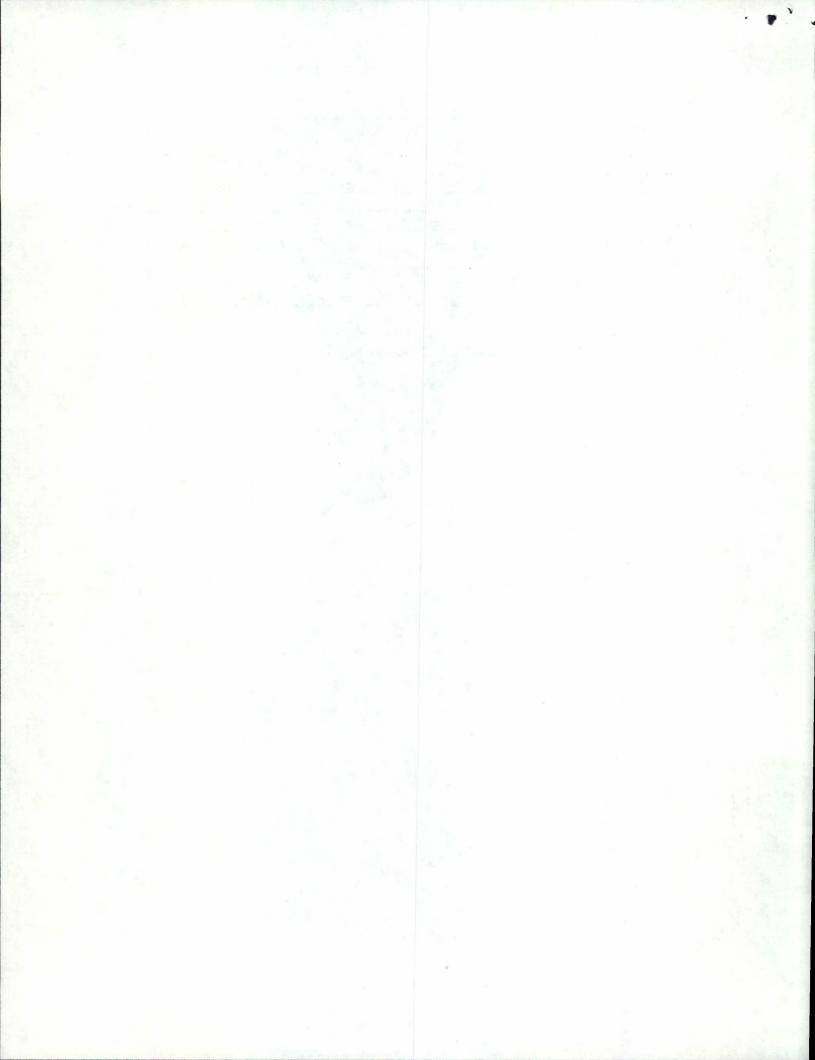
Birgg.



SCHEDULE 1 TO ASSIGNMENT (PVP CERTIFICATES)

Certificate No.	Date	Name of Owner	Name of Novel Variety
8100060	03/24/83	Germain's, Inc.*	GERMAIN'S ACALA GC-363
8100061	03/24/83	Germain's, Inc.*	GERMAIN'S ACALA GC-445
8100062	03/24/83	Germain's, Inc.*	GERMAIN'S ACALA GC-555
8200166	03/24/83	Germain's, Inc.*	GERMAIN'S ACALA GC-510
8400129	09/28/84	Germain's, Inc.*	GERMAIN'S ACALA GC-362
8700061	07/31/87	Germain's, Inc. **	GERMAIN'S ACALA GC-410
8800017	11/18/87	Germain's, Inc.**	GERMAIN'S ACALA GC-356
9000235	03/31/93	Germain's, Inc.	GERMAIN'S ACALA GC-702

^{**} Assigned to Germain's, Inc. from CWA 23 February 1988
* Assigned to Germain's, Inc. from CWA 15 November 1984



ASSIGNMENT

(PVP Certificates)

This Assignment is made and entered into as of November 30, 1995, by and between Germain's, Inc., a Delaware corporation ("Assignor"), and Germain's Cotton Seeds, Inc., a New Jersey corporation ("Assignee").

WHEREAS, Assignor and Assignee have entered into that certain letter agreement, dated November 30, 1995, pursuant to which Assignor has agreed to assign certain Plant Variety Protection Certificates to Assignee upon the terms and conditions contained therein and below.

NOW, THEREFORE, in consideration of the premises and mutual promises contained herein, and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto hereby agree as follows:

- 1. Assignor hereby assigns, conveys and transfers to Assignee, and Assignee hereby accepts from Assignor, all of Assignor's right, title and interest in and to the Plant Variety Protection Certificates (the "Certificates") which are set forth on Schedule 1, which Schedule 1 is attached hereto and incorporated herein by this reference.
- 2. Assignee shall be responsible, at its own expense, for the preparation, legalization and filing of any documents and the obtaining of any third-party or governmental approvals or consents which are not required to be obtained by Assignor under the above-referenced Agreement, which may be necessary to effect and record the assignment of any of the Certificates.

IN WITNESS WHEREOF, the parties hereto have caused this Assignment to be executed as of the date first set forth above.

Germain's, Inc.

By:

Title: CEO

Germain's Cotton

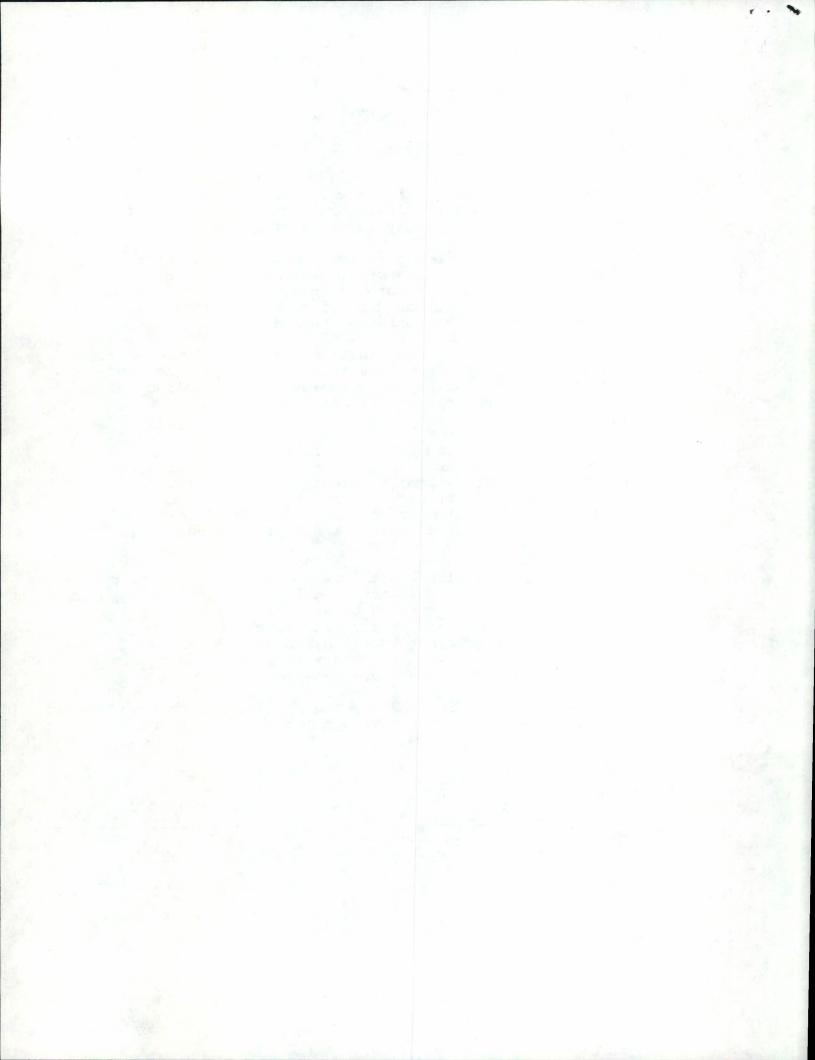
Seeds, Inc.

By: Ceorge Petrides

Title: President

Name: William Fraley

Title: Vice President



State of California)

County of Framo) ss.

on left Notary Public, personally appeared and personally known to me (or proved to me on the basis of satisfactory evidence) to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacity, and that by their signature on the instrument the persons or the entity upon behalf of which the person acted, executed the instrument.

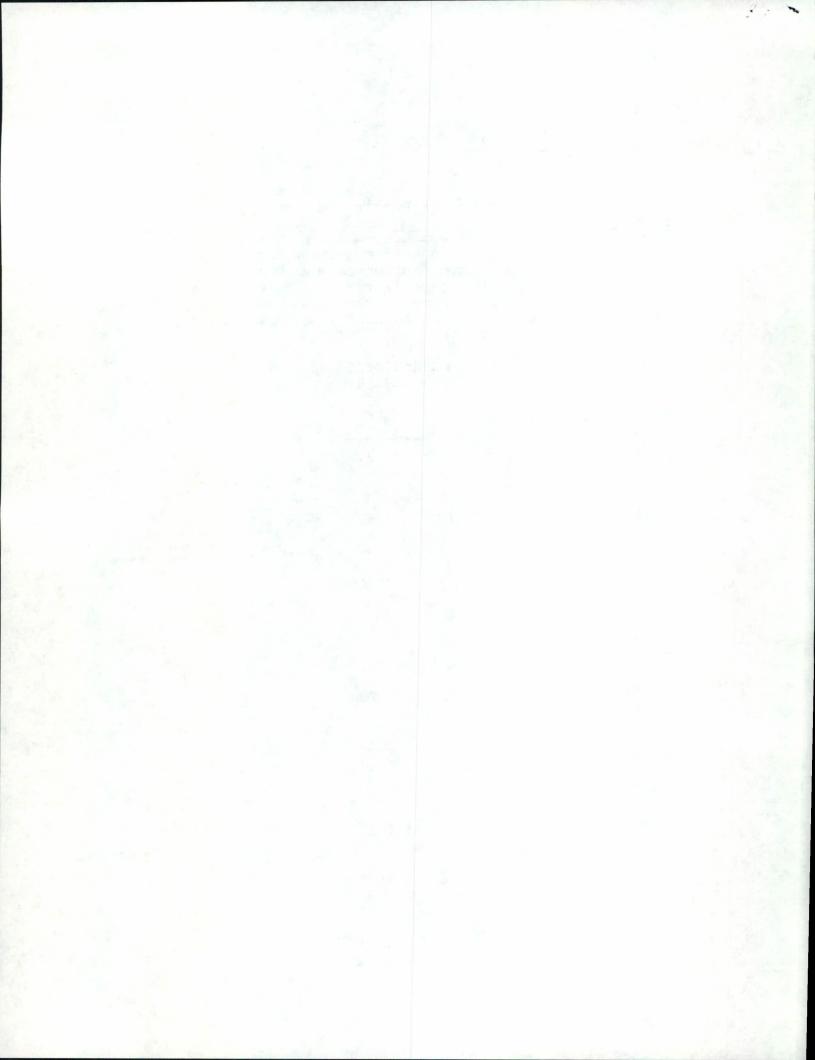
WITNESS my hand and official seal.

Signature

fulie D. Shant (seal)

Assignment DUP Cert.

JULIE D. GRANT
Comm. #998033
NOTARY PUBLIC - CALIFORNIAD
FRESNO COUNTY
Comm. Expires June 20, 1997



State of California)

County of Fresno)

ss.

On <u>Dec.</u>, 1995, before me, <u>Julie D. Grant</u>, Notary Public, personally appeared <u>Resone Polyioles</u> and <u>Bill Hales</u> personally known to me (or proved to me on the basis of satisfactory evidence) to be the persons whose names are subscribed to the within instrument and acknowledged to me that they executed the same in their authorized capacity, and that by their signature on the instrument the persons, or the entity upon behalf of which the person acted, executed the instrument.

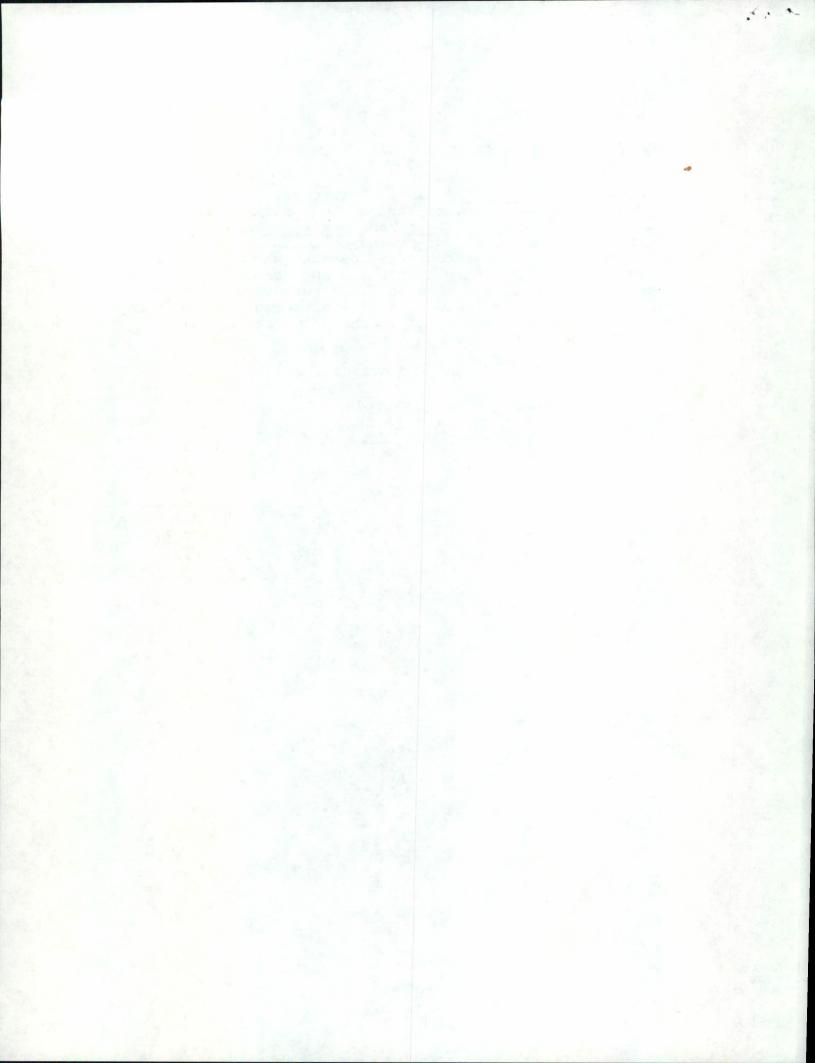
WITNESS my hand and official seal.

ulie D. Dan

Signature

PUP Assignment

JULIE D. GRANT
Comm. #998033
NOTARY PUBLIC - CALIFORNIA
FRESNO COUNTY
Comm. Expires June 20, 1997



8. FLOWER:	
A STATE OF THE STA	Petals: 1 = Cream 2 = Yellow
2 Nectaries: 1 = Absent 2 = Present	Pollen: 1 = Cream 2 = Yellow
9. SEEDS: 1 3 1 Seed Index (g/100 seeds, fuzzy seed basis)	TO LAND HOLLOW THE TANK TO THE TO THE TO THE TO THE TO THE TO THE TOTAL TO THE TOTA
Lint Index (g of lint/100 seeds)	
3 Seed Fuzz: 1 = sparse (Gregg 35) 2 = Moderate (DPL-6	3 = Heavy (Acala SJ-1) 4 = Tufted (Pima)
IO. BOLLS:	COLUMN TO THE RESERVE OF THE PARTY OF THE PA
3 2 1 Lint Percent	No. seeds Per Boll
Lint % less than	7 6 3 Grams Seed Cotton Per Boll
Same as 6 Comparison Varitie.	Grams less than
Lint % more than	Same as Comparison Varieties
	0 7 6 Grams more than 6
2 Locules: 1 = 3-4 2 = 4-5	
Pitting: 1 = None 2 = Fine 3 = Coarse	
3 Type: 1 = Stormproof (Westburn 70) 2 = Storm Resistant	t (Lankart 57) 3 = Open (Deltapine 16)
3 9 Mm Diameter	
Breadth: 1 = Broadest at Base 2 = Broadest at Middle	
Shape: 1 = Length Less Than Width 2 = Length Equals W	lidth 3 = Length Greater Than Width
11. BRACTEOLES:	For the second s
3 Breadth: 1 = Length Less Than Width 2 = Length Equa	als Width 3 = Length Greater Than Width
Z Feeth: 1 = Fine 2 = Coarse	
4 No. Teeth: 1 = 3-4 2 = 5-7 3 = 8-10 4	= More Than 10
12. FIBER LENGTH: 3 7 Staple Length (32nd inches)	
11 6 n. Span Length (2.5%)	In. UHM Length
In. Shorter Than	In. Shorter Than
Length Same as 6 Comparison Varieties	Length Same as Comparison Varieties
In. Longer Than	In. Longer Than
In. Span Length (50%)	In. Mean Length
4 5 Uniformity Index (50%/2.5%)	Uniformity Ratio (Mean/UHM)
13. FIBER STRENGTH ELONGATION AND FINENESS:	
1 0 4 1000 P.S.I. (Pressley)	283 Stelometer (T ₁)
6 0 Elongation (E ₁)	444 Micronaire
Yarn Tenacity (cN/tex- 27-tex)	
145 Yarn Strength (Lbs. 22's)	
14. DISEASES: (0 = not tested, 1 = susceptible, 2 = resistant)	
2 Verticillium Wilt	Bacterial Blight (Race 2)
Fusarium Wilt	Bacterial Blight (Other Races)
Root Knot Nematode	O Ascochyta Blight

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, POULTRY, GRAIN & SEED DIVISION BELTSVILLE, MARYLAND 20705

(Cotton)

OBJECTIVE DESCRIPTION OF VARIETY

COTTON (Gossypium spp.)

GERMAIN'S 882/23/83

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	ARIETY NAME
H C & A, Inc.	GC-555-2	Acala 60-555
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code)		FOR OFFICIAL USE ONLY
P.O. Box 9656	P	VPO NUMBER
Bakersfield, CA 93389		8100062
Place numbers in the boxes (e.g., 0 849) for the characters that be decimal.	est describe typical plants of this var	iety. The symbol & indicates
1 = Coker 310	(1985년) 11.120년 (1985년 - 1985년 - 1985년) 11.120년 (1985년) 11.120년 (1985년) 11.12년 (1985년) 11.12년 (1985년) 1	Acala 4517-75 SJ-2
1 SPECIES: $1 = \underline{G}. \underline{hirsutum} L.$ $2 = \underline{G}. \underline{barbac}$	dense L.	
2. AREA(S) OF ADAPTATION (0 = Not Tested, 1 = Not Adapted, 2 = Adapted	n:	APPLIES OF THE PROPERTY OF THE
Eastern Delta	O Central	High Plains
El Paso Area	t Valleys 2 San J	oaquin
Other (Specify)	Calculate to the board of the first	The Parkets at the same with the
3. MATURITY (50% Open Balls, Ideal Method: Date 50% of Crop-Harvested-de	etermined from sequential yield harvests.	Give method 50% open boll
No. of Days earlier than		
Maturity same as 6 Comparison Varieties		
No. of Days later than		
1 = Early (Tamcot SP 37) 2 = Medium (McNair 22)	01 2 = 1 ato (Stanovilla	2121
4. PLANT:	0) 3 = Late (Stoneville	213)
Cm Shorter than	2 Habit: 1 = Spreading, 2 = Int	ermediate, 3 = Compact
Height same as Comparison Varities	Foliage: 1 = Sparse, 2 = Inter	THE SHARE SHARE A PERSONAL PROPERTY.
[2] Cm Taller than [6]	3 Stem: 1 = Lodging, 2 = Interes	mediate, 3 = Erect
Cm to 1st Fruiting Branch (from cotyledonary node)		mit we will
No. of Nodes to 1st Fruiting Branch		And the second
Stem Pubescence: 1 = Glabrous 2 = Sparse Pubescence 3 = Pul	bescent (Stoneville 213) 4 =	Heavy Pubescence
5. LEAF:	No. of the last of	
Cm Width of Widest Leaves at Maturity 3 Pubescense: 1 = Glabrous (Tamcot SP21S) 2 = Sp	Type: 1 = Normal, 2 = Okra,	3 = Super Okra
3 = Pubescent (Stoneville 213)	parse Pubescence (DPL-16) 4 = Heavy Pubescence	
Color: 1 = Greenish Yellow (Cascot B-2) 2 = Light Green (St	toneville 603) 3 = Dark Green (Coker 310)
Nectaries: 1 = Absent 2 = Present		A CONTRACTOR OF THE CONTRACTOR
6. FUITING BRANCH:		
3 Type: 1 = Cluster 2 = Short 3	= Normal	
The state of the s	= Indeterminate	S. L. L. Hornes
7. GLANDS (Gossypol): 3 Gland Density (Vegetative): 1 = Glandless 2 = Low 3 = Max	odium (Stanguilla 242)	A STATE OF THE STATE OF
Gland Density (Vegetative): 1 = Glandless 2 = Low 3 = Me	edium (Stoneville 213) 4 = High	VEN STAR
Gossypol % (Buds): 1 = Low 2 = Medium (Stoneville 213)	3 = High	6

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14. DISEASES (Continued): (0 = not tested, 1 = susceptible, 2 = resistant)	
Rhizoctonia solani	Southwestern Cotton Rust
Anthracnose	Thielaviopsis basicola
Pythium (specify species)	Diplodia Boll Rot
Reniform Nematore	Other (specify)
Alternaria macrospora	Other (specify)
15. INSECT\$: (0 = not tested, 1 = susceptible, 2 = resistant)	
O Boll Weevil	① Thrip
Aphid Aphid	O Cutworm
① Fleahopper	Alabama argillacea (Leaf Worm)
Fall Armyworm	O Spider Mite
Grasshopper	Heliothis zea (Bollworm)
O Lygus	Heliothis verescens (Tobacco bud worm)
Pink Bollworm	Other (specify)
O Stink Bug	- Other (specify)

erior, etc. Use comparison varieties or other more appropriate varieties.

CHARACTER	SIMILAR VARIETY	D.R.	CHARACTER	SIMILAR VARIETY	D.R.
Leaf Pubescence	SJ-5	2	1000 PSI	SJ-5	3
Seed Index	SJ-5	2	Stelometer (T ₁)	SJ-5	3
Lint Index			Elongation (E ₁)	SJ-5	2
Yarn Tenacity	SJ-5	2	Micronaire	SJ-5	3
Verticillium Wilt Resistance	SJ-5	3	Fusarium Wilt Resistance	SJ-5	-

^{17.} COMMENTS: (Present information which cannot be adequately described in 1 to 16 that significantly distinguishes your variety such as comparative disease reactions, other expressions of maturity:)

The distinguishing characteristics of GC-555-2 compared to SJ-5 are greater verticillium tolerance and larger boll size.

The data supporting the above is contained in Novelty Statement, 13b, enclosed.

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